LESSON 4.6

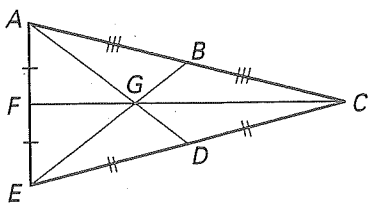
NAME _____ DATE _____

Practice A

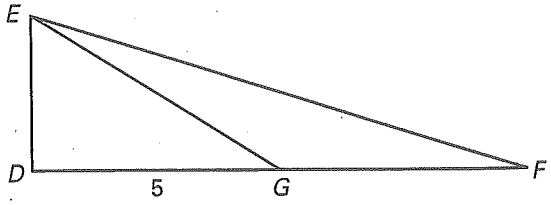
For use with pages 206–211

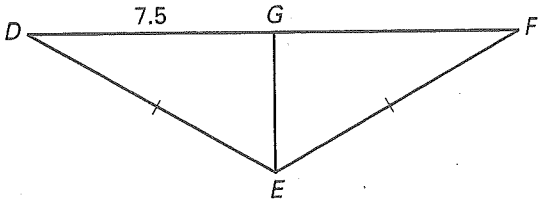
Use the diagram at the right.

1. Identify the medians in $\triangle ACE$.
2. Identify the centroid in $\triangle ACE$.



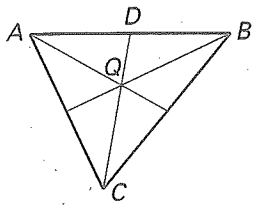
$\overline{EG}$ is a median of $\triangle DEF$. Find the length of $\overline{GF}$.

3. 

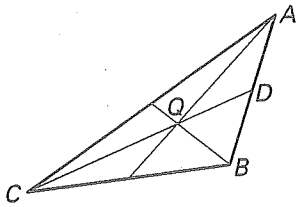
4. 

Q is the centroid of $\triangle ABC$. Find CQ and QD.

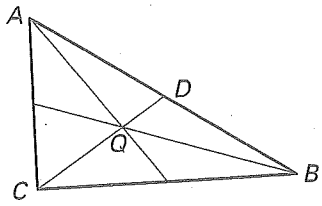
5. $CD = 12$



6. $CD = 18$

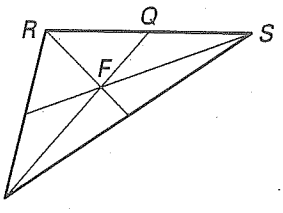


7. $CD = 6$

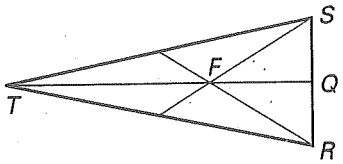


F is the centroid of $\triangle RST$. Find TF and TQ.

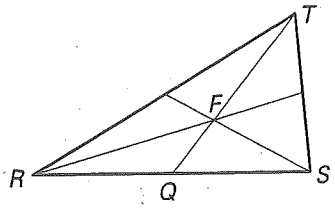
8. $FQ = 4$



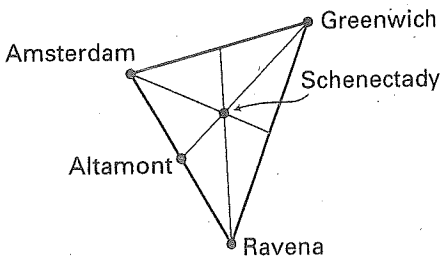
9. $FQ = 7$



10. $FQ = 2$



11. The figure at the right shows five towns in New York. Schenectady is approximately the centroid between the towns of Amsterdam, Greenwich, and Ravena. The distance between Greenwich and Altamont is 39 miles. What is the distance between Greenwich and Schenectady?



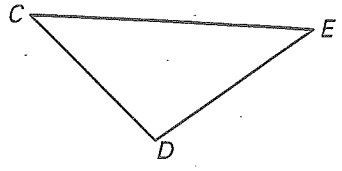
LESSON 4.6

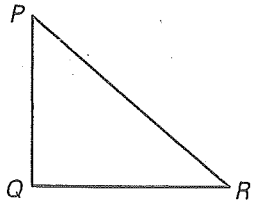
NAME _____ DATE _____

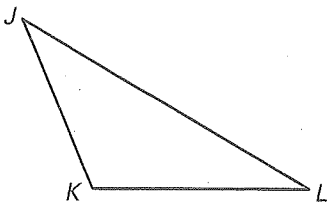
Practice B

For use with pages 206–211

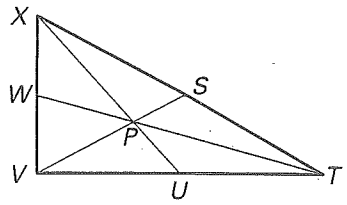
Draw the three medians of the triangle.

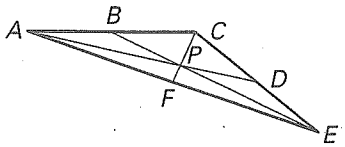
1. 

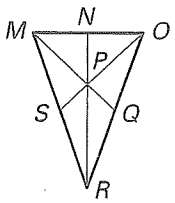
2. 

3. 

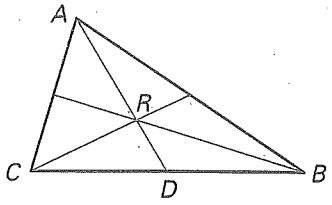
If *P* is the centroid of each triangle, identify segments that are congruent.

4. 

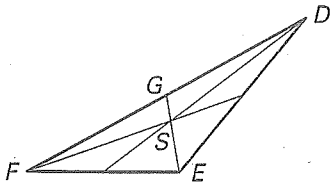
5. 

6. 

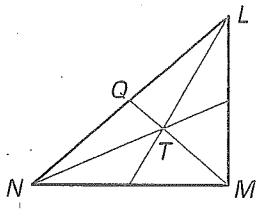
7. R is the centroid of $\triangle ABC$ and $AD = 9$. Find AR and RD.



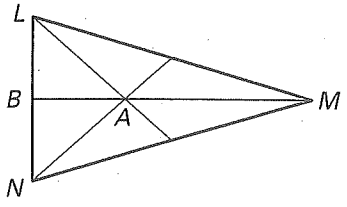
8. S is the centroid of $\triangle DEF$ and $EG = 36$. Find ES and SG.



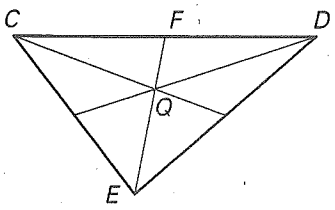
9. T is the centroid of $\triangle LMN$ and $MQ = 27$. Find MT and TQ.



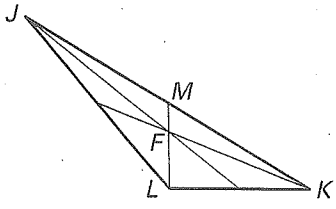
10. A is the centroid of $\triangle LMN$ and $AB = 5$. Find MA and MB.



11. Q is the centroid of $\triangle CDE$ and $QF = 7$. Find EQ and EF.



12. F is the centroid of $\triangle JKL$ and $FM = 11$. Find LF and LM.



$\triangle ABC$ is given by coordinates $A(-1, 1)$, $B(5, 3)$, and $C(5, -5)$.

13. Find the coordinates of D, E, and F, the midpoints of the sides of $\triangle ABC$.

14. Use the Distance Formula to find the length of each median of $\triangle ABC$. Round your answers to the nearest tenth.